

**WEST VERMONT SITE
SPEEDWAY, MARION COUNTY, INDIANA
DATA VALIDATION REPORT**

Date: February 4, 2014

Laboratory: Pace Analytical Services, Inc. (Pace), Indianapolis, Indiana

Laboratory Project #: 5092776

Data Validation Performed By: Lisa Graczyk, Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START)

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This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for four groundwater samples collected for the West Vermont Site that were analyzed for the following parameters and methods.

- Volatile Organic Compounds (VOC) by SW-846 Method 8260
- Dissolved Gases (Methane, Ethane, and Ethene) by RSK-175

A level II data package was requested from Pace. The data validation was conducted in general accordance with the U.S. Environmental Protection Agency "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

VOCs BY EPA SW-846 METHOD 8260

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
WVS-MWWES-DUP1-012514-GW	5092776001	Water	1/25/2014	1/29/2014
WVS-MWWES-01A-012514-GW	5092776002	Water	1/25/2014	1/29/2014
WVS-MWWES-01B-012514-GW	5092776003	Water	1/25/2014	1/29/2014
WVS-MWWES-01C-012514-GW	5092776004	Water	1/25/2014	1/29/2014

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection.

3. Blanks

A method blank and trip blank were analyzed with the VOC analyses and were free of target compound contamination above the reporting limit.

4. Surrogate Recovery Results

The surrogate recoveries were within the laboratory established quality control (QC) limits.

5. Laboratory Control Sample (LCS) Results

The LCS recoveries were within laboratory QC limits except for as follows. Methyl acetate was detected high; however, this VOC was not detected in the samples and no qualifications were required.

6. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

A site-specific MS and MSD were analyzed. The percent recoveries and relative percent differences (RPD) were within QC limits.

7. Field Duplicate Results

Sample WVS-MWWES-DUP1-012514-GW is a field duplicate of sample WVS-MWWES-01C-012514-GW. Vinyl chloride was detected in both samples and the RPD between the two results was calculated to be 6 percent which is acceptable.

8. Overall Assessment

The VOC data are acceptable for use based on the information received.

METHANE, ETHANE, AND ETHENE BY RSK-175

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
WVS-MWWES-DUP1-012514-GW	5092776001	Water	1/25/2014	1/31/2014
WVS-MWWES-01A-012514-GW	5092776002	Water	1/25/2014	1/31/2014
WVS-MWWES-01B-012514-GW	5092776003	Water	1/25/2014	1/31/2014
WVS-MWWES-01C-012514-GW	5092776004	Water	1/25/2014	1/31/2014

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection.

3. Blanks

Method blanks were analyzed with the dissolved gas analyses and were free of target compound contamination above the reporting limit.

4. LCS Results

The LCS recoveries were within laboratory QC limits.

5. Field Duplicate Results

Sample WVS-MWWES-DUP1-012514-GW is a field duplicate of sample WVS-MWWES-01C-012514-GW. The RPDs were calculated. The RPDs for ethane, ethene, and methane were 23, 16, and 70 percent respectively. The RPD values for ethane and ethene are acceptable. The RPD value of 70 for methane is elevated above a standard QC limit of 50 percent and indicates some heterogeneity associated with methane in this sample.

6. Laboratory Duplicate CS Results

The laboratory duplicate results were acceptable.

7. Overall Assessment

The dissolved gas data are acceptable for use based on the information received.

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West Vermont Site
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ATTACHMENT

**PACE ANALYTICAL SERVICES, INC.
RESULTS SUMMARY**